<u>AMENDMENTS TO THE CLAIMS:</u>

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Previously presented) A method for collecting sleep quality data, comprising:

    collecting in an implantable device physiological information regarding at least one physiological condition related to sleep quality of a patient; and

    collecting in the implantable device non-physiological information regarding at least one non-physiological condition that affects the sleep quality of the patient, the at least one non-physiological condition comprising an ambient condition external to the patient other than time;

    storing the physiological information and the non-physiological information in the implantable device; and

    evaluating the patient's sleep quality using both the physiological and non-physiological information.

2. (Previously presented) The method of claim 1, wherein the at least one physiological condition comprises a cardiovascular system condition.

3. (Previously presented) The method of claim 1, wherein the at least one physiological condition comprises a respiratory system condition.

4. (Previously presented) The method of claim 1, wherein the at least one physiological condition comprises a muscle system condition.

5. (Previously presented) The method of claim 1, wherein the at least one physiological condition comprises a blood chemistry condition.

6. (Previously presented) The method of claim 1, wherein the at least one physiological condition comprises a nervous system condition.

2

7. (Previously presented) The method of claim 1, wherein the at least one non-physiological condition comprises an environmental condition.

8. (Previously presented) The method of claim 1, wherein the at least one non-physiological condition comprises a contextual condition.

9. (Previously presented) The method of claim 1, wherein collecting the physiological information comprises collecting data associated with sleep stages.

10. (Previously presented) The method of claim 1, wherein collecting the physiological information comprises collecting data associated with sleep disruption.

11. (Previously presented) The method of claim 1, wherein collecting the physiological information comprises collecting data associated with disordered breathing.

12. (Previously presented) The method of claim 1, wherein collecting the physiological information comprises collecting data associated with a movement disorder.

13. (Canceled)

14. (Previously presented) The method of claim 1, wherein collecting the non-physiological information comprises sensing the at least one non-physiological condition external to the patient and transmitting the sensed non-physiological condition to the implantable device.

15-34. (Canceled)

35. (Previously presented) A method for assessing sleep quality of a patient, comprising:
    collecting in an implantable device physiological information regarding at least one physiological condition related to sleep quality of a patient; and

3

collecting in the implantable device non-physiological information regarding at least one non-physiological condition that affects the sleep quality of the patient, the at least one non-physiological condition comprising an ambient condition external to the patient other than time; and

evaluating the sleep quality of the patient using the collected physiological and non-physiological information, wherein the evaluating the sleep quality is performed at least in part by the implantable device.

36. (Previously presented) The method of claim 35, wherein the collecting non-physiological information is performed in part implantably and in part externally to the patient.

37. (Original) The method of claim 35, wherein evaluating the sleep quality comprises determining one or more sleep stages.

38. (Previously presented) The method of claim 35, wherein the collecting physiological information comprises detecting events associated with sleep disruption.

39. (Original) The method of claim 38, wherein detecting the events associated with sleep disruption comprises detecting disordered breathing.

40. (Original) The method of claim 38, wherein detecting the events associated with sleep disruption comprises detecting movement disorders.

41. (Original) The method of claim 35, wherein evaluating the sleep quality comprises determining one or more metrics associated with sleep quality.

42. (Original) The method of claim 35, wherein evaluating the sleep quality comprises trending one or more metrics associated with sleep quality over time.

4

43. (Original) The method of claim 35, wherein evaluating the sleep quality comprises determining one or more metrics associated with disordered breathing.

44. (Original) The method of claim 35, wherein evaluating the sleep quality comprises determining one or more metric associated with movement disorders.

45. (Original) The method of claim 35, wherein evaluating the sleep quality comprises determining one or more composite metrics based on metrics associated with sleep and metrics associated with events that disrupt sleep.

46. (Previously presented) The method of claim 35, wherein the collecting non-physiological information comprises sensing the at least one non-physiological condition external to the patient and transmitting the sensed non-physiological condition to the implantable device.

47-96. (Canceled)